

### **Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

### **Listing of Claims:**

1-14. (cancelled)

15. (previously added) A method to determine the change and weight of parts in a furnace during a CVI/CVD process comprising the steps of measuring the change in weight of the entire furnace, including contents, during the CVI/CVD process, monitoring the rate of weight change, and changing the furnace temperature to achieve the desired weight gain.

16. (previously added) A method to achieve a desired weight gain by determining the change and weight of parts in a furnace during a CVI/CVD process comprising the steps of measuring the change in weight of the entire furnace, including contents, during the CVI/CVD process, monitoring the rate of weight change, monitoring the reactant gas flow into said furnace and changing the reactant gas flow to achieve the desired weight gain.

17. (previously added) A method to achieve a desired weight gain by determining the change and weight of parts in a furnace during a CVI/CVD process comprising the steps of measuring the change in weight of the entire furnace, including contents, during the CVI/CVD process, monitoring the rate of weight change, monitoring the internal furnace pressure and changing the internal furnace pressure to achieve the desired weight gain.

18. (previously added) A method to achieve a desired weight gain by determining the change and weight of parts in a furnace during a CVI/CVD process comprising the steps of measuring the change in weight of the entire furnace, including contents, during the CVI/CVD process,

monitoring the rate of weight change, monitoring the reactivity of the reactant gas and changing the reactant gas flow to achieve the desired weight gain.